REMARKS

The present Amendment and Request for Reconsideration is filed in response to the

Office Action mailed July 17, 2003, the period of response having been extended by two months

to December 17, 2003.

Claims 1-16 and 55-59 are pending in the application. Claims 55-59 stand allowed.

In the Office Action, Claims 5 and 6 were rejected under 35 U.S.C. § 112, second

paragraph, as being indefinite. In response, applicants have amended the claims to further clarify

the subject matter regarded as the invention. It is believed that the amended claims are clear as

to the requirements of the filters. It is therefore requested the Examiner withdraw the rejection.

If the Examiner has any additional questions regarding these claims, he is invited to call

applicants' attorney at the number listed below.

Claims 1, 2, 5, 6 and 15 were rejected under 35 U.S.C. § 102(e) as being anticipated by

U.S. Patent No. 6,293,911 to Imaizumi et al. Applicants respectfully traverse the rejection. In

order to anticipate a claim, the cited reference must teach or suggest each and every element of

the claimed invention. Applicants respectfully submit that the Imaizumi et al. reference does not

disclose the claimed combination of elements including a camera with a beam splitter that

divides light into two beams with the same spectrum and one or more filters that are positionable

in front of a color image sensor for passing light in a desired wavelength band when the camera

is operating in a fluorescence imaging mode.

As shown in Figure 1, the Imaizumi et al. reference discloses an imaging system

including a dichroic mirror that directs infrared light towards an infrared image intensified

camera 23, 24, 25 and the remaining light towards a white light image sensor 26, 27, 28.

Imaizumi et al. discloses utilizing this imaging system for the detection of fluorescence at

infrared wavelengths and white light. If, however, an imaging system of this architecture were

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used to detect fluorescence at visible wavelengths, as is done with the present invention, then the

images produced by the white light sensor would not be truly white light images because the

light received by the sensor would be missing the wavelengths diverted by the dichroic mirror.

The imaging system of the present invention incorporates a beam splitter that divides the light

into two beams with the same spectrum, so that the color image sensor produces a true white

light image when operating in a white light imaging mode and a normalizing image when

operating in a fluorescence imaging mode.

The normalizing image produced by the color image sensor depends upon the filters that

are positioned in front of the color image sensor. If the filters positioned in front of the color

image sensor pass a portion of the reference reflectance light, then the camera will operate in a

fluorescence/reflectance mode. Alternatively, if the filters positioned in front of the color image

sensor pass light in a second fluorescence spectral band, then the camera can be used in a

fluorescence/fluorescence image mode. If the one or more filters (or lack of filters) pass all

wavelengths, then the color image sensor produces white light images as specified on page 11,

line 20-page 16, line 15 of the application.

Because the Imaizumi et al. reference does not teach or suggest each and every element

as set forth in Claim 1, it is submitted that Claim 1 and the claims that depend thereon are

allowable over the reference.

Claims 3, 5, 6 and 15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over

Imaizumi et al. in view of Kazuhiro, U.S. Patent No. 6,280,378. Without agreeing with the

rejection, applicants note that these claims depend from and further narrow Claim 1, which is

believed to be allowable. Therefore, these claims are allowable for at least this reason.

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In light of the above, it is believed that all pending claims are in condition for allowance. It is therefore requested that the Examiner withdraw the rejections and pass this case to issue at the earliest possible date.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below date. Pamela h Suker

Date:

December 17, 2003

RCT:kag